UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,854	12/22/2000	James Morrow	83336.0476	7292
66880 STEPTOE & J	7590 08/07/2007 OHNSON, LLP		EXAMINER	
1330 CONNECTICUT AVENUE, NW			PATEL, NIKETA I	
WASHINGTO	N, DC 20036		ART UNIT PAPER NUMBER	
			2181	
			MAIL DATE	DELIVERY MODE
			08/07/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		mΝ	
	Application No.	Applicant(s)	
	09/746,854	MORROW ET AL.	
Office Action Summary	Examiner	Art Unit	
	Niketa I. Patel	2181	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MON te, cause the application to become AB.	CATION. Sply be timely filed ITHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 27 J	<u>luly 2007</u> .		
2a) This action is FINAL . 2b) ∑ This	s action is non-final.		
3) Since this application is in condition for allowated closed in accordance with the practice under	•	·	
Disposition of Claims			
4) ⊠ Claim(s) 1-38 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-38 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examine			
10)⊠ The drawing(s) filed on 30 April 2001 is/are: a			
Applicant may not request that any objection to the	- · ·		
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E			٠
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	nts have been received. Its have been received in Apority documents have been au (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) D Notice of References Cited (PTO-892)		ummary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date)/Mail Date formal Patent Application 	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/27/2007 has been entered.

Double Patenting

Note: The double patenting rejection, set forth in the previous Office Action, is still maintained but not repeated. The applicant, in response filed on 01/08/2007, agreed to submit a Terminal Disclaimer at the time of allowance.

Response to Arguments

Applicant's arguments filed 7/27/2007 have been fully considered but they are not persuasive. The applicant argues that the Swales reference does not teach (1) a controller component and a communication interface component that implement true real time control over the peripheral devices, with respect to claims 1, 5,12, 19, 21 and 24. Furthermore, Montijo and Halviatti references do nothing to supply the missing elements of the Swales reference, see pages 8, paragraphs 2-3; page 9, paragraph 1 and page 10, paragraphs 1-3 of the remarks section; (2) the limitation of 'interaction between the

peripheral devices and non-true real time computer comprise data transfer that are not bounded by length' recited in newly added claims 35-38 is not taught by Swales reference since it uses a TCP protocol for communication in one embodiment, see page 9, paragraphs 2-3 of the remarks section.

The examiner respectfully disagrees with these arguments.

As per the first argument, Swales teaches a controller component [see figure 3, element 10 and column 4, lines 5-7, 'the COM-adapter'] and a communication interface component [see figure 3, elements 22, 'ATI interface'] in order to implement true real time control over the peripheral devices [see column 4, sentence beginning at line 66, field devise are controlled via specific true real time control protocols, such as MODBUS plus.] It is noted that the arguments pertaining to the above limitation does not offer analysis as to how Swales reference does not teach such limitation. The Applicant has not provided analysis of how and why the COM-adapter of Swales cannot be considered as the claimed controller component since, the functionality of the COM-adapter is equivalent to that of the claimed controller component. The Examiner cannot meaningfully respond to statements disagreeing with the rejection offered by the Examiner without analysis as to how Swales does not teach such limitations, therefore the rejections stands.

As per the second argument, Although, Swales reference teaches a use of TCP protocol in one embodiment of the invention, which requires the request message and the response message to be limited to a length that is less then a TCP transaction length and/or a maximum transmission unit limit, or both, Swales reference further discloses that various types of network communication protocols such as Interbus-S,

Profibus DP, Modbus Plus, Echelon, Seriplex, CAN DeviceNet, CAN SDS, and CANCAL, each having specific and different communications requirements [see column 1, lines 28-41.] One having ordinary skill in the art would recognize such implementation of various types of communication protocols would require data transfer that are not bounded by length in the manner claimed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4, 6-20, 22-27 and 29-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swales et al. U.S. Patent Number: 6,233,626 B1 (hereinafter 'Swales') and further in view of *Montijo*.

Art Unit: 2181

Referring to claim 1, Swales teaches a generic device controller unit system [see figure 3] for facilitating interaction between a processor [see figure 3, element 12, 'Master Device'] and any number of peripheral devices [see figure 3, element 14, 'I/O Device' and column 1, lines 23-42, 'field devices'], the system comprising: a general purpose device controller [see figure 3, element 10 and column 4, lines 5-7, 'the COMadapter'] employing asynchronous true real time peripheral device control [see column 1, lines 23-42 and column 4, sentence beginning at line 66, field devise are controlled via specific true real time control protocols, such as MODBUS plus, Interbus-S, Profibus DP, Echelon, Seriplex, CAN DeviceNet, CAN SDS], wherein the device controller interfaces between the peripheral devices and a non-true real time computer a non-true real time operating system [see figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host device/ field master; column 6, lines 14-28 states that the COM-adapter is compatible with host program running over Windows 95 & NT, therefore the host is running on nontrue real time operating system (i.e., Windows 95 & NT)], thereby allowing a non-true real time operating system to implement true real time control of the peripheral devices [see column 3, lines 15-23, 46-53, COM-adapter allows the field master (i.e., the host device) to control field devices in real time without special operating system]; and a data and protocol communications interface [see figure 3, elements 22, 'ATI interface'], wherein the communications interface connects the processor and the peripheral devices [see figure 3, elements 22 and ATI interface are part of element 10 which provides communication interface between the host device (element 12, master device) and the

peripheral devices (element 14, I/O device)], thereby allowing the processor to utilize a single protocol and associated data to communicate with the peripheral devices which may be utilizing protocols and associated data which are different than that used by the processor [see column 6, lines 20-25, the host side uses TCP/IP protocol which is different then the protocol used by the field devices, ATI protocol, as described in column 9, lines 30-34.]

Swales does not set forth the detailed limitation of the non-true real time computer having an non-true real time-enabled circuit board however, *Montijo* teaches a non-true real time computer having a non-true real time operating system and non-true real time-enabled circuit board [see *Montijo* column 4, lines 31-49, 'a computer motherboard' and lines 62-67, 'operating system' and column 5, lines 1-6, 'Windows 95, 3.1, NT operating system' i.e., the non-true real time operating system] in order to allow the host computer to process information.

One of ordinary skill in the art at the time of applicant's invention would have clearly recognized that it is quite advantageous for the non-true real time computer of *Swales* to have a non-true real time operating system and non-true real time-enabled circuit board to provide the host computer with information processing capability. It is for this reason that one of ordinary skill in the art would have been motivated to implement the non-true real time computer of *Swales* with a non-true real time operating system and non-true real time-enabled circuit board in order to allow the host computer to process information.

Referring to claim 12, Swales teaches a generic device controller unit system [see figure 3] for facilitation interaction between a processor [see figure 3, element 12, 'Master Device'] and any number of peripheral devices [see figure 3, element 14, 'I/O Device' and column 1, lines 23-42, 'field devices'], the system comprising: a general purpose device controller [see figure 3, element 10 and column 4, lines 5-7, 'the COMadapter'] employing asynchronous true real time peripheral device control [see column 1, lines 23-42 and column 4, sentence beginning at line 66, field devise are controlled via specific true real time control protocols, such as MODBUS plus, Interbus-S. Profibus DP. Echelon, Seriplex, CAN DeviceNet, CAN SDS], wherein the device controller interfaces between the peripheral device and a non-true real time computer having a non-true real time operating system [see figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host device/ field master; column 6, lines 14-28 states that the COM-adapter is compatible with host program running over Windows 95 & NT, therefore the host is running a nontrue real time operating system (i.e., Windows 95 & NT)] thereby allowing a non-true real time operating system to implement true real time control of the peripheral devices without a processor requiring either a real time kernel or a layered true real time operating system [see column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS.]

Swales does not set forth the detailed limitation of the non-true real time computer having an non-true real time-enabled circuit board however, *Montijo* teaches a non-true real time

computer having a non-true real time operating system and non-true real time-enabled circuit board and [see *Montijo* column 4, lines 31-49, 'a computer motherboard' and lines 62-67, 'operating system' and column 5, lines 1-6, 'Windows 95, 3.1, NT operating system' i.e., the non-true real time operating system] in order to allow the host computer to process information.

One of ordinary skill in the art at the time of applicant's invention would have clearly recognized that it is quite advantageous for the non-true real time computer of *Swales* to have a non-true real time operating system and non-true real time-enabled circuit board to provide the host computer with information processing capability. It is for this reason that one of ordinary skill in the art would have been motivated to implement the non-true real time computer of *Swales* with a non-true real time operating system and non-true real time-enabled circuit board in order to allow the host computer to process information.

Referring to claim 19, *Swales* teaches a generic device controller unit system [see figure 3] for providing a data and protocol communication interface which facilitates interaction between a processor [see figure 3, element 12, 'Master Device'] and any number of peripheral devices [see figure 3, element 14, 'I/O Device' and column 1, lines 23-42, 'field devices'], the system comprising: an asynchronous general device data and protocol communications interface [see figure 3, element 10 and column 4, lines 5-7, 'the COM-adapter'], wherein the communications interface connects a processor and various peripheral devise [see figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host

Art Unit: 2181

device/ field master], thereby allowing the processor to unitize a single protocol and associated data to communicate with the various peripheral devices which may utilize different protocols and associated data then that used by the processor [see column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS] and wherein the communications interface employs asynchronous true real time peripheral device control [see column 1, lines 23-42 and column 4, sentence beginning at line 66, field devise are controlled via specific true real time control protocols, such as MODBUS plus, Interbus-S, Profibus DP, Echelon, Seriplex, CAN DeviceNet, CAN SDS], and wherein the communications interface connects the peripheral devices and a non-true real time computer having a non-true real time operating system [see figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host device/ field master; column 6, lines 14-28 states that the COM-adapter is compatible with host program running over Windows 95 & NT, therefore the host is running a nontrue real time operating system (i.e., Windows 95 & NT).]

Swales does not set forth the detailed limitation of the non-true real time computer having an non-true real time-enabled circuit board however, *Montijo* teaches a non-true real time computer having a non-true real time operating system and non-true real time-enabled circuit board and [see *Montijo* column 4, lines 31-49, 'a computer motherboard' and lines 62-67, 'operating system' and column 5, lines 1-6, 'Windows 95,

3.1, NT operating system' i.e., the non-true real time operating system] in order to allow the host computer to process information.

One of ordinary skill in the art at the time of applicant's invention would have clearly recognized that it is quite advantageous for the non-true real time computer of *Swales* to have a non-true real time operating system and non-true real time-enabled circuit board to provide the host computer with information processing capability. It is for this reason that one of ordinary skill in the art would have been motivated to implement the non-true real time computer of *Swales* with a non-true real time operating system and non-true real time-enabled circuit board in order to allow the host computer to process information.

Referring to claim 24, *Swales* teaches a method for providing a data and protocol communications interface to facilitate interaction between a processor [see figure 3, element 12, 'Master Device'] and any number of peripheral devices [see figure 3, element 14, 'I/O Device' and column 1, lines 23-42, 'field devices'], the method comprising: interfacing between various non-specific peripheral devices [see figure 3, element 14, 'I/O Device' and column 1, lines 23-42, 'field devices'] a non-true real time computer having a non-true real time operating system [see figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host device/ field master; column 6, lines 14-28 states that the COM-adapter is compatible with host program running over Windows 95 & NT, therefore the host is running a non-true real time operating system (i.e., Windows 95 & NT)]; employing asynchronous true real time peripheral device control through a generic

device controller unit [see figure 3, element 10 and column 4, lines 5-7, 'the COMadapter'], wherein the device controller allows the processor to implement true real time control of the peripheral devices without the non-true real time operating system requiring either a real time kernel or a layered true real time operating system [see column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS]; and providing a protocol and associated data communications interface [see figure 3, elements 22, 'ATI interface'] between the processor and the peripheral devices [see figure 3, elements 22 and ATI interface are part of element 10 which provides communication interface between the host device (element 12, master device) and the peripheral devices (element 14, I/O device)], thereby allowing the processor to utilize a single protocol and associated data to communicate with the peripheral devices which may utilize different protocols and associated data then that used by the processor [see column 6, lines 20-25, the host side uses TCP/IP protocol which is different then the protocol used by the field devices, ATI protocol, as described in column 9, lines 30-34.]

Swales does not set forth the detailed limitation of the non-true real time computer having an non-true real time-enabled circuit board however, *Montijo* teaches a non-true real time computer having a non-true real time operating system and non-true real time-enabled circuit board and [see *Montijo* column 4, lines 31-49, 'a computer motherboard' and lines 62-67, 'operating system' and column 5, lines 1-6, 'Windows 95, 3.1, NT operating

Art Unit: 2181

system' i.e., the non-true real time operating system] in order to allow the host computer to process information.

One of ordinary skill in the art at the time of applicant's invention would have clearly recognized that it is quite advantageous for the non-true real time computer of *Swales* to have a non-true real time operating system and non-true real time-enabled circuit board to provide the host computer with information processing capability. It is for this reason that one of ordinary skill in the art would have been motivated to implement the non-true real time computer of *Swales* with a non-true real time operating system and non-true real time-enabled circuit board in order to allow the host computer to process information.

Referring to claims 2, 13, 25, combination of *Swales & Montijo* teaches wherein the generic device controller unit system produces true real time peripheral device control while interfaced with a non-true real time operating system running standard non-true real time software [see *Swales* figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host device/ field master; column 6, lines 14-28 states that the COM-adapter is compatible with host program running over Windows 95 & NT, therefore the host is running a non-true real time operating system (i.e., Windows 95 & NT).]

Referring to claims 3, 14, 20, 26, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system functions as a distributed processing environment [see column 6, lines 14-23 and column 3, lines 15-

Art Unit: 2181

23, 46-53, networked devices COM-adapter, host computer and field devices provide distributed processing.]

Referring to claims 4, 27, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system further includes customized system drivers [see *Swales* column 6, lines 42-63, kernel firmware of the COM-adapter.]

Referring to claims 6, 18, 29, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system interfaces with the non-true real time operating system that functions in a Win32 environment [see *Swales* column 5, lines 1-6, 'Windows 95, 3.1, NT operating system' i.e., Win32 environment non-true real time operating system.]

Referring to claims 7, 15, 22, 30, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system is an input/output device interface for a processor to peripheral devices [see *Swales* figure 3, element 10 and column 3, lines 46-53 and column 4, lines 5-7, the COM-adapter provides communication interface to a master processor and an I/O device.]

Referring to claims 8, 16, 31, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system provides real time device control to resource management capabilities of a standard non-true real time operating system [see *Swales* column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS, the host does runs

Art Unit: 2181

Windows operating system, Windows operating system do not run true real time kernel; also see column 3, 15-23, which specifically discloses that real time component are not required, instead standard network components are shared.]

Referring to claims 9, 17, 23, 32, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system produces true real time peripheral device control without the higher level functionality of the processor [see *Swales* column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS, the host does runs Windows operating system, Windows operating system do not run true real time kernel; also see column 3, 15-23, which specifically discloses that real time component are not required, instead standard network components are shared.]

Referring to claims 10, 33, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system produces true real time peripheral device control without the processor using a true real time kernel [see *Swales* column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS, the host does runs Windows operating system, Windows operating system do not run true real time kernel; also see column 3, 15-23, which specifically discloses that real time component are not required, instead standard network components are shared.]

Referring to claims 11, 34, combination of *Swales & Montijo* teaches the system and the method wherein the generic device controller unit system produces true real time peripheral device control without the processor utilizing a layered true real time operating system [see *Swales* column 3, lines 11-23, 46-53, column 6, lines 14-28 and column 1, lines 23-42, the COM-adapter allows a host running Windows OS to control field devices which are using real time protocol such as MODBUS; also see column 3, 15-23, which specifically discloses that real time component are not required, instead standard network components are shared.]

Referring to claims 35-38, the combination of *Swales, Montijo* and *Halviatti* teaches a use of MODBUS over Ethernet to TCP for the communication of information between the field devices and the field master [see *Swales* column 1, lines 57-60] however does not set forth the limitation of wherein the facilitated interaction between the peripheral devices and non-true real time computer comprise data transfer that are not bounded by length. *Swales* discloses various other types of network communication protocols such as Interbus-S, Profibus DP, Modbus Plus, Echelon, Seriplex, CAN DeviceNet, CAN SDS, and CANCAL each of which having specific and different communication requirements [see column 1, lines 28-41 – different communication requirements – i.e., each of various types of protocols has different types of data transfer length.]

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention that it is quite advantageous to facilitate interaction between the peripheral and the non-true real time computer with data transfers that are not bounded

Art Unit: 2181

by length by providing various type of communication protocols in order to provide user with the flexibility to implement various types of communication protocols. It is for this reason that one of ordinary skill in the art would have been motivated to implement interaction between the peripheral and the non-true real time computer with data transfers that are not bounded by length by providing various type of communication protocols in order to obtain above stated advantage.

Claims 5, 21, 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swales & Montijo as modified above in claims 1, 19, 24 and further in view of Evoy et al. U.S. Patent Number: 5,958,020 (hereinafter "Evoy".)

Referring to claims 5, 21, 28, combination of *Swales & Montijo* teaches a generic device controller unit system and a method for facilitating interaction between a processor and any number of peripheral devices [*Swales* figure 3, element 10 located between elements 12 & 14 and column 1, lines 64-67 and column 2, lines 1-5, a personal computer/ host computer/ host device/ field master; column 6, lines 14-28 states that the COM-adapter is compatible with host program running over Windows 95 & NT, therefore the host is running a non-true real time operating system (i.e., Windows 95 & NT) and *Montijo* teaches serial port, figure 6, element 610.] The combination of *Swales & Montijo* does not set forth the limitation wherein Universal Serial Bus is the default communication protocol between the generic device controller unit system and the processor, however *Evoy* teaches a use of Universal Serial Bus protocol between the generic device controller unit system and the processor [see *Evoy* column 2, lines 46-60

Art Unit: 2181

and column 1, lines 23-43] because USB connects peripheral devices to the resources of the computer system without consuming the input output resources of the computer system and also provides for automatic USB peripheral device configuration and eliminates computer system resource conflicts.

One of ordinary skill in the art at the time of applicant's invention would have clearly recognized that it is quite advantageous for the system of *Swales & Montijo* to be able to automatically configure peripheral devices in order to eliminate computer system resource conflicts by using USB protocol. It is for this reason that one of ordinary skill in the art would have been motivated to implement USB protocol in the system of *Swales & Montijo* to eliminate computer system resource conflicts and saving input output resources.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Niketa I. Patel whose telephone number is (571) 272 4156. The examiner can normally be reached on M-F 8:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alford Kindred can be reached on (571) 272 4037. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/746,854 Page 18

Art Unit: 2181

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner:

Niketa Patel 8/5/2007